

## PATENT COOPERATION TREATY

## PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D 26 OCT 2004

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Applicant's or agent's file reference 155426/OS/BF	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/NO2003/000271	International filing date (day/month/year) 08.08.2003	Priority date (day/month/year) 09.08.2002
International Patent Classification (IPC) or national classification and IPC G09B 19/16		
Applicant Best Practice Deployment AS et al		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.	
2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.	
3. This report is also accompanied by ANNEXES, comprising:	
a. <input checked="" type="checkbox"/> (sent to the applicant and to the International Bureau) a total of <u>2</u> sheets, as follows:	
<input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).	
<input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.	
b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).	
4. This report contains indications relating to the following items:	
<input checked="" type="checkbox"/> Box No. I	Basis of the report
<input type="checkbox"/> Box No. II	Priority
<input type="checkbox"/> Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/> Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/> Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/> Box No. VI	Certain documents cited
<input type="checkbox"/> Box No. VII	Certain defects in the international application
<input checked="" type="checkbox"/> Box No. VIII	Certain observations on the international application

Date of submission of the demand 09.03.2004	Date of completion of this report 19.10.2004
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88	Authorized officer Christer Wendenius / MRO Telephone No. +46 8 782 25 00

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NO2003/000271

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
  - ☐ publication of the international application (under Rule 12.4)
  - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):

- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1-5 \_\_\_\_\_ as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the claims:
- pages 7 (claims 8-9) \_\_\_\_\_ as originally filed/furnished
- pages\* \_\_\_\_\_ as amended (together with any statement) under Article 19
- pages\* 6-7 (claims 1-6) received by this Authority on 12.10.2004
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the drawings:
- pages 1 \_\_\_\_\_ as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (specify): \_\_\_\_\_
- ☐ any table(s) related to the sequence listing (specify): \_\_\_\_\_

4. ☒ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☒ the description, pages 1-5
- ☒ the claims, Nos. 7-12
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (specify): \_\_\_\_\_
- ☐ any table(s) related to the sequence listing (specify): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NO2003/000271

**Box No. V** Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	<u>1-6, 8-9</u>	YES
	Claims	_____	NO
Inventive step (IS)	Claims	<u>1-6, 8-9</u>	YES
	Claims	_____	NO
Industrial applicability (IA)	Claims	<u>1-6, 8-9</u>	YES
	Claims	_____	NO

## 2. Citations and explanations (Rule 70.7)

The invention concerns a system for computer assisted driver lessons of the kind stated in the preamble of the amended claim 1. In order to achieve practical and immediate feedback sessions at the end of the driving lesson the processing unit is arranged to store signals from the cameras, the sensor and the microphone in predetermined time intervals at predetermined positions along the driving route as stated in the characterising part of claim 1.

The invention also concerns a use of the system as stated in the originally filed claim 8.

### Cited documents:

D1: DE C1 19914861

D2: US B1 6200139

From D1 and D2 are known systems for computer aided driving lessons. The known systems do not each include cameras, a sensor and a microphone as stated in the preamble of claim 1 and lack a processing unit which is arranged to store signals from the cameras, the sensor and the microphone in predetermined time intervals at predetermined positions along the driving route as stated in the characterising part of the claim.

D1 or D2 does not show a use of the system as stated in any of the claims 1-6 including measures for preparing and following up of an driving lesson as stated in the originally filed claim 8.

.../...

## Supplemental Box

In case the space in any of the preceding boxes is not sufficient.  
Continuation of: Box V

As the system in the amended claim 1 and the method in originally filed claim 8 are new, are considered to involve an inventive step, and also are industrially applicable, the patentability criteria are deemed to be met.

## SUPPLEMENTAL BOX

The amended claim 7 is directed to a method for computer assisted driver lessons including displaying picture/video-sequences from pre-defined time intervals in pre-defined positions along a pre-defined route as preparation before driving occurs, when driving to record video signals from the same predefined route, and after the driving trip displaying the signals recorded during the trip in said pre-defined time intervals in said pre-defined positions.

In the disclosure as originally filed there is stated that, as preparation of the driving lesson, the teacher shows series of pictures, video cuts or sketches of the task to be taught from a predetermined route. During driving all the signals from the system, comprising several cameras, a microphone and a sensor are recorded. After the driving, the signals and pictures are displayed.

The amended claim 7 does not include recording of all signals from the system as originally stated. In the amended claim only video signals are mentioned, which gives the claim a broader scope.

Also, the amended claim 7 does not include the use of a system as stated in any of the claims 1-6, as originally stated in claim 8.

The method in the amended claim 7 is therefore considered to go beyond the disclosure as filed.

This also applies to corresponding parts of the amended description.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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**Box No. VIII** Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 8-9 are not construed with a preamble and a characterising part.

C l a i m s  
(Amended 12 October 2004)

1. A system for computer assisted driving lessons, for  
5 installation in a vehicle used for instructions,  
including an electronic processing unit (5) for display,  
control, recording and storage of data, a first camera  
(1) directed forward in the driving direction, a second  
10 camera (2) directed at a pupil's eyes as well as  
recording situations behind the vehicle, a microphone  
(3), and a sensor (4) giving position data,  
c h a r a c t e r i z e d i n that the processing  
unit (5) being arranged for synchronous recording and  
15 storing signals from the cameras (1, 2), the microphone  
(3) and the sensor (4) in pre-defined time intervals at  
pre-defined positions along a driving route.
2. A system as claimed in claim 1,  
c h a r a c t e r i z e d i n a sensor measuring the  
20 distance to any vehicle in front of the vehicle used  
for instructions, the distance sensor being connected to  
the processing unit (5) for recording of distances.
3. A system as claimed in claim 1,  
25 c h a r a c t e r i z e d i n that the sensor (4) for  
measuring the position of the vehicle being a trip  
meter.
4. A system as claimed in claim 1,  
30 c h a r a c t e r i z e d i n that the sensor (4) for  
measuring the position of the vehicle being a Global  
Positioning System receiver.
5. A system as claimed in one of the preceding claims,  
35 c h a r a c t e r i z e d i n that the processing  
unit (5) being arranged for compressing the recorded  
signals prior to storage.

6. A system as claimed in any of the preceding claims,  
c h a r a c t e r i z e d i n that the processing unit  
(5) being arranged for storing an electronic scorecard,  
for storing marks given to each pupil for each sequence of  
the training route.

7. A method for computer assisted driving lessons, including  
displaying picture/video-sequences from pre-defined time  
intervals in pre-defined positions along a pre-defined  
route as preparation before driving occurs, when driving  
to record video signals from the same predefined route,  
and after the driving trip displaying the signals recorded  
during the trip in said pre-defined time intervals in said  
pre-defined positions.

8. A method as claimed in claim 7, including when driving  
manually entering electronic marks at points of particular  
interest, and after the trip displaying the signals  
recorded during a predefined time interval at said points  
of particular interest.

9. A method as claimed in claim 7 or 8, in which the signals  
are registered with a video camera pointing in the  
direction of driving.

10. A method as claimed in claim 9, in which additional  
signals are registered with a video camera pointing in the  
rearward direction, and also recording the eyes of the  
person driving.

11. A method as claimed in claim 7 or 8, in which the  
signals are recorded continuously during the trip.

12. A method as claimed in claim 7 or 8, in which the  
signals are recorded in said pre-defined time intervals at  
said pre-defined positions, and when an electronic mark  
has been entered.

## PCT REQUEST

155426/ØS/BF

Original (for SUBMISSION) - printed on 08.08.2003 09:34:37 AM

VIII-2-1	<b>Declaration: Entitlement to apply for and be granted a patent</b> Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate: Name:	<b>in relation to this international application</b>  <b>BEST PRACTICE DEPLOYMENT AS</b> <b>is entitled to apply for and be granted a patent by virtue of the following:</b>
VIII-2-1 (ii)		<b>BEST PRACTICE DEPLOYMENT AS is entitled as employer of the inventor, ROALD, Arne</b>
VIII-2-1 (i)		<b>ROALD, Arne of Skogveien 5 JAR Norway is the inventor of the subject matter for which protection is sought by way of this international application</b>
VIII-2-1 (bx)	<b>This declaration is made for the purposes of:</b>	<b>all designations except the designation of the United States of America</b>




VIII-4-1	<p>Declaration: Inventorship (only for the purposes of the designation of the United States of America)</p> <p>Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America:</p>	<p>I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.</p> <p>This declaration is directed to the international application of which it forms a part (if filing declaration with application).</p> <p>I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.</p> <p>I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications," by application number, country or Member of the World Trade Organization, day, month and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.</p>
VIII-4-1 -1	Prior applications:	20023791, NO, 09 August 2002 (09.08.2002)

## PCT REQUEST

155426/ØS/BF

Original (for SUBMISSION) - printed on 08.08.2003 09:34:37 AM

		<p>I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application.</p> <p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.</p>
VIII-4-1 -1-1	Name:	ROALD, Arne
VIII-4-1 -1-2	Residence: (city and either US State, if applicable, or country)	JAR, Norway
VIII-4-1 -1-3	Mailing address: .	Skogveien 5
VIII-4-1 -1-4	Citizenship:	NO
VIII-4-1 -1-5	Inventor's Signature: (If not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the International application. The signature must be that of the inventor, not that of the agent)	 14/8-2003
VIII-4-1 -1-6	Date: (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the International application)	